This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-53 (canceled)

Claim 54 (Currently Amended): A method of vectorizing a set of document predicate structures, comprising ~~the~~ steps of:

identifying ~~each set of~~ at least one predicates and arguments in said set of document predicate structures by a predicate ~~keys~~ that ~~are~~ is an integer representations, and estimating ~~wherein~~ conceptual nearness of two of said document predicate structures in said set of document predicate structures ~~is estimated~~ by subtracting corresponding one of said predicate keys.

Claim 55 (Currently Amended): A method of vectorizing a set of document predicate structures, as recited in claim 54, comprising the further step of constructing multi-dimensional vectors using said integer representations.

Claim 56 (original): A method of vectorizing a set of document predicate structures, as recited in claim 55, comprising the further step of normalizing said multi-dimensional vectors.

Claim 57 (Currently Amended): A method of vectorizing a set of ~~query~~ document predicate structures, as recited in claim 54, ~~further~~ comprising the further step of identifying at least one query predicate structures by a second predicate ~~keys~~ that ~~are~~ is a second integer representations, and constructing second multi-dimensional vectors, for ~~each~~ ~~of~~ said at least one query predicate structures, using said second integer representations.

Claim 58 (Currently Amended): A method of vectorizing a set of ~~query~~ document predicate structures, as recited in claim 56, ~~further~~ comprising the further step of identifying at least one

query predicate structures by a second predicate keys that ~~are~~ is a second integer representations, and constructing second multi-dimensional vectors, for ~~each of~~ said at least one query predicate structures, using said second integer representations.

Claims 59-69 (canceled)